



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>7</sup> : <b>B03B 5/62, B01J 8/20</b></p>	<b>A1</b>	<p>(11) International Publication Number: <b>WO 00/45959</b></p> <p>(43) International Publication Date: 10 August 2000 (10.08.00)</p>								
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>(21) International Application Number: <b>PCT/AU00/00058</b></p> <p>(22) International Filing Date: 2 February 2000 (02.02.00)</p> <p>(30) Priority Data: PP 8481 2 February 1999 (02.02.99) AU</p> <p>(71) Applicant (for all designated States except US): <b>THE UNIVERSITY OF NEWCASTLE RESEARCH ASSOCIATES LIMITED (AU/AU); Industry Development Center, University Drive, Callaghan, NSW 2308 (AU).</b></p> <p>(72) Inventor; and (75) Inventor/Applicant (for US only): <b>GALVIN, Kevin, Patrick (AU/AU); The University of Newcastle Research Associates Limited, Industry Development Centre, University Drive, Callaghan, NSW 2308 (AU).</b></p> <p>(74) Agent: <b>BALDWIN SHELSTON WATERS; 60 Margaret Street, Sydney, NSW 2000 (AU).</b></p> </div> <div style="width: 50%;"> <p>(81) Designated States: <b>AF, AI, AM, AT, AU, A7, BA, BR, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</b></p> <p>Published With international search report</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>RECEIVED</b></p> <p><b>BSW SYDNEY</b></p> <p><b>25 AUG 2000</b></p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 20%;">Mail No.</td> <td colspan="3"></td> </tr> <tr> <td>To</td> <td>Initials</td> <td>Action</td> <td>Date</td> </tr> </table> </div> </div>			Mail No.				To	Initials	Action	Date
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<p>(54) Title: <b>A REFLUX CLASSIFIER</b></p> <p>(57) Abstract</p> <p>A reflux classifier for segregating particles by size or density uses a fluidized bed in a chamber (10). Arrays of inclined plates (14A, 14B and 14C) forming lamellae (12A, 12B and 12C) divide the chamber into zones into which particles of predetermined size or density migrate. Particle differentiation is controlled by plate length, inclination and spacing in each array, combined with fluidization rate. Both batch and continuous processes are described.</p>										